

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 1

DATED 5/04/2006

Control	0155-06-016, ETC.
Project	CPM 155-6-16, ETC.
Highway	FM 2678, ETC.
County	REFUGIO, ETC.

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum by entering the date, which appears at the top of this letter on the Addendum Acknowledgement Form, contained in your bid proposal.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: CPM 155-6-16 CONTROL: 0155-06-016
COUNTY: REFUGIO
LETTING: 05/10/2006
REFERENCE NO: 0504

CONTROL: 0155-06-016

LETTING: 05/10/2006

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BID INSERTS (SH. NO.:

DELETED :

ADDED :

X OTHER: Plan Sheets 9, 17, 18, 19

(INCLUDING PLANS SHEET CHANGES)

Plan Sheets	Sheet 9 has changes for Item 585 as described above.
	Sheet 17 "Pavement Drop-Off" and "Uneven Lanes" have been revised. Note 1 has been deleted from each.
	Sheet 18 "Pavement Drop-Off" and "Uneven Lanes" have been revised. Note 1 has been deleted from each.
	Sheet 19 "Pavement Drop-Off" and "Uneven Lanes" have been revised. Note 1 has been deleted from each.

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GENERAL NOTES:

The Contractor shall remove or obliterate all conflicting pavement markings as directed by the Engineer. This work will not be paid directly, but considered subsidiary to the various bid items.

The Contractor shall not be permitted to commence work on the roadway before sunrise and arrange work so that no machinery shall be on the road after sunset.

The Contractor's attention is directed to the fact that both overhead and underground utilities exist in the vicinity of this construction. The Contractor shall make his own investigations as to their location.

No person or tool shall be permitted within 10 feet of high voltage electrical lines (600 volts or greater), unless arrangements have been made with the power company. No equipment shall be permitted within 10 feet of high voltage electrical lines, unless there are warnings posted and an insulated guard is attached to the boom or bucket. The Contractor shall notify the Engineer if there are any conflicts with high voltage electrical lines.

The locations of utilities, either underground or overhead, shown within the limits of the right-of-way (ROW) are approximate only and shall be verified by the Contractor before beginning construction. This work shall not be paid directly, but considered subsidiary to the various bid items. 48 hours prior to beginning any excavation work in the area of existing utilities, the Contractor shall contact the utility companies for exact locations to prevent any damage or interference with present facilities. The Texas One-Call System shall be notified at the following toll free number: (1-800-245-4545). This action shall in no way be interpreted as relieving the Contractor of his responsibility under the terms of the Contract as set out in the plans and specifications. The Contractor shall repair any damage caused by their operations, deemed the Contractor's liability by the Engineer, at their own expense and shall restore facilities to service in a timely manner. All information concerning utility verification shall be provided to the Engineer.

In the event utility lines needing unforeseen adjustments are encountered, the Contractor shall prosecute the work in such a manner and sequence to allow adjustments to be done by others. An extension of work time may be granted, if necessary in the opinion of the Engineer, for this delay.

The Contractor shall notify the power company if there are any conflicts with high voltage electrical lines.

The Contractor shall provide for safe and convenient ingress and egress to abutting property, highway, public road, and street crossings for all vehicles. The Contractor shall advise the Engineer in advance as to his proposed methods for accommodating traffic during construction at

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all locations and these methods shall be approved by the Engineer before any portion of an existing road or street is removed or disturbed.

All dimensions shall be field verified prior to the initiation of any work on the contract.

All broken concrete shall become the property of the Contractor and shall be disposed in a manner approved by the Engineer.

The Contractor shall take appropriate measures to protect all adjacent property from any damage. If any damage occurs, the Contractor shall restore the damaged property to a condition equal to the existing before the damage was incurred. This shall be done at the Contractor's own expense.

All existing pavements, which are damaged by the Contractor in the progress of his work, shall be replaced as quickly as possible and as directed by the Engineer. Where existing pavement adjoins new pavement, the existing pavement shall be saw-cut to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in.

ITEM 5 CONTROL OF THE WORK

The Contractor shall offset the existing and proposed centerline prior to starting any surfacing and/or grading operations. The offset line shall be at a distance such that it is not affected by construction activities. It shall consist of a positive system of stakes and hubs at 100-foot intervals, or an alternative system as directed and/or approved by the Engineer. This offset line shall be maintained throughout the project duration.

The Contractor shall establish the roadway centerline for surface treatment and striping operation. No direct compensation shall be allowed for this work, this work is considered subsidiary to the various bid items of the Contract.

It shall be the Contractor's responsibility to mark the location of the standard pavement markings including edgelines, transitions, passing and no passing zones, and gore areas.

ITEM 8 PROSECUTION AND PROGRESS

Working days will be computed and charge in accordance with Section 8.3.A.4., "Standard Workweek."

The Contractor shall submit a proposed Critical Path Method (CPM) schedule of work utilizing the Arrow Diagram Method. Periodic updates may be necessary. This schedule shall be submitted prior to setting of barricades and prior to commencing any work.

ITEM 9 MEASUREMENT AND PAYMENT

The Contractor must submit material-on-hand payment requests at least four (4) working days prior to the end of the month for payment on that month's estimate. The cutoff date for payment

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of the monthly estimate shall be four (4) working days prior to the end of the month. All requests shall be submitted through the Prime Contractor.

ITEM 134 BACKFILLING PAVEMENT EDGES

The Contractor shall ensure that the backfill used is suitable for growing vegetation and shall be approved by the Engineer prior to use. All backfill material used on this project shall have a minimum PI of 15 and a maximum PI of 30.

The estimated rate of Type A material as shoulder up is 6 CY per station. The Contractor may be directed by the Engineer to spread this material at varying depths and locations along the project in order to meet field conditions. This work will not be paid directly, but considered subsidiary to Item 134.

ITEM 341 DENSE-GRADED HOT-MIX ASPHALT (QC/QA)

Asphalt binder for the Type C HMA CP shall have a performance grade of PG76-22.

The Contractor shall provide proof of current certification for all hot-mix specialists employed on this project.

Maximum requirement for coarse aggregate 5-cycle Magnesium Sulfate Soundness is 35.

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

During hot-mix placement in areas open to traffic, the longitudinal joint drop shall be made with an approved longitudinal joint maker or as approved by the Engineer and not leave a vertical drop-off. All longitudinal joints adjacent to the travel lanes shall be constructed with a joint matcher providing a maximum one-inch vertical edge (½" is desirable) with an adjacent 6:1 taper. Outside edge joints shall have a 6:1 taper or backfilled the same day as detailed in the plans, unless otherwise authorized by the Engineer.

ITEM 354 PLANING AND TEXTURING PAVEMENT

All reclaimed asphalt pavement (RAP) shall become property of TxDOT. Reclaimed asphalt pavement collected from SH 361 will be stockpiled at the intersection of SH 361 and SH 35 or as directed by the Engineer. Reclaimed asphalt pavement collected from FM 2678, FM 136, and FM 774 shall be stockpiled on the FM 774 ROW at a location 5 miles east of the FM 2678 intersection or as directed by the Engineer. Hauling of this material will not be paid directly, but considered subsidiary to Item 354.

The Contractor shall close only one lane of traffic at a time and there will be no drop-offs at the end of the workday.

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ITEM 479 ADJUSTING MANHOLES AND INLETS

Adjustment of manholes shall be done as per Standard Sheet CRP WV-ADJ. Water valve box locations are at approximately Station 1+00 (2) and Station 1+75. The sanitary sewer location is approximately Station 21+00.

ITEM 500 MOBILIZATION

“Material-on-hand” payments shall not be considered in determining percentages used to compute payment for the Item “Mobilization.”

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

The “Begin Project” and “End Project” signs shall be provided by the Contractor and placed in accordance with the BC Standard Sheets. Advance warning signs (CW20-1D) and (SG20-1 with plaque) or (SG20-5T and SG20-6) shall be installed with Type A warning lights as directed by the Engineer.

All signs, barricades, and pavement markings shall conform to the BC Standard Sheets, TCP Standard Sheets and the latest version of the *Texas Manual on Uniform Traffic Control Devices* (TMUTCD).

The Contractor may be required to furnish additional barricades, signs, and warning lights to maintain traffic and promote motorists’ safety. Any such additional signs and barricades will be considered subsidiary to Item 502. All signs, barricades, and posts shall be either new or freshly painted.

Traffic control for daytime lane closures shall be in accordance with TCP(2-6)-98.

Before any obstruction is placed on the roadway, warning devices must be positioned as indicated on the Traffic Control Plan, BC Standard Sheets, TCP Standard Sheets, and the latest version of the TMUTCD.

Traffic control devices as shown in the plans may be adjusted to fit field conditions as directed by the Engineer.

Edgeline channelizers shall be used in accordance with the plans and manufacturer’s recommendations and shall have a 7-in. prismatic reflector, as approved by the Engineer.

After completion of the project, when removing the barricades and signs, the Contractor shall fill and compact any holes left by the barricades or sign supports and restore the area, in which the signs were removed, to its original condition.

Any other area or surface disturbed during the placement or removal of barricades, signs, or for any other reason shall be restored to its original condition.

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The Contractor shall have an employee on-call nights and weekends or any other time that work is not in progress with a local address for maintenance of signs and barricades. This employee shall be located within one-hour of traveling time to the project site. The Contractor shall notify the Engineer in writing of the name, physical address, and telephone number of this employee or these employees. The Engineer shall furnish this information to local law enforcement officials.

The Contractor shall be required to furnish two (2) Trailer-Mounted Speed Control Monitors for the duration of this project, as directed by the Engineer. Location for placement of the two Trailer-Mounted Speed Control Monitors shall be determined by the Engineer. The monitor units used for this project shall meet or exceed the examples listed below:

Precision Solar Controls Solar Mobile Traffic Monitor SMTM-2012
PSE Amber Smart Speed Monitoring Awareness Radar Trailer
MPH Traffic Monitor Trailer Model 3
Stalker Speed Guard or TxDOT approved equal.

Furnishing these monitors will not be paid directly, but considered subsidiary to bid Item 502.

ITEM 504

The following building will be required for the Engineer's use:

1 - Type D Structure, Asphalt Mix Control Laboratory

All structures shall be provided before work is begun on the pertinent construction items for which it is needed. All structures shall be separate from the Contractor's office. All structures shall have keyed deadbolt locks on all exterior doors. Two keys for each structure shall be provided to the Engineer. All structures shall be equipped with a hot water dispenser or hot water capable of generating one gallon of water at 140 degrees Fahrenheit with acceptable water pressure. Collection and disposal of trash and janitorial services that are acceptable to the Engineer will be provided. Space heaters for heating any structure are unacceptable. Portable structures shall be support blocked for stability and tied down according to applicable zoning requirements or as directed by the Engineer. The dimensions of the fence will be as directed by the Engineer. Two keys shall be provided to the Engineer.

The Type D Structure shall be equipped with the following, in addition to requirements specified under Item 504:

Safety equipment
(1) One eyewash station
(2) One fire extinguisher
(3) One first-aid kit

The Type D Structure shall be at least 12 feet by 32 feet and 8 feet high. The floor area will be partitioned into a minimum of two interconnected rooms, each room furnished with an exterior door and a door between rooms. All doors will have a minimum width of 36 inches and 80

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inches in height. All exterior openings will be secured with burglar bars. The floor shall have sufficient strength to support the testing equipment and have an impervious covering. The Type D Structure shall include access to a bathroom facility from the interior. The laboratory and bathroom facility will have the walls, ceiling, and floor insulated such that the air temperature can be maintained at 76 degrees Fahrenheit at all times. The Contractor is responsible for maintaining all mechanical, electrical, and plumbing facilities at all times. An air-exhaust shall be located, so solvent vapors are drawn away from the workers. The ovens used to dry aggregate, cure, and ignite asphalt mixes will be vented upward to the outside. The Contractor will connect the vent ducts to the ovens. The laboratory will be furnished with work counters measuring 36 inches in width and 36 inches in height along the walls. The laboratory will have a minimum total work counter length of 20 feet. A laboratory sink measuring 24 inches by 30 inches and 12 inches deep will be provided with adequate, clean, potable water supply for testing.

The Type D Structure shall be provided with a 240-volt electrical entrance service. The service shall consist of a minimum of four (4) 120-volt circuits with 20-amp breakers and no more than two (2) grounded convenience outlets per circuit and provisions for a minimum of two (2) 220-volt outlets for ovens with vents to the outside. The laboratory portion will be equipped with at least seven (7) 20-amp 110-volt outlets, four (4) 30-amp 220-volt outlets, two (2) light switches on the wall, and fluorescent ceiling lights capable of providing lighting meeting ANSI standards for industrial lighting. All outlets will be compatible with the electrical requirements of the equipment to be used for testing. For this project, asphalt content will be determined utilizing the Ignition Method. The room to contain the ignition oven shall be adequately power ventilated and contain a NEMA 6-50R (208/240-volt, 50-amp) outlet within 2.5 feet of the ignition oven location and an independent exhaust outlet to the outside no further than 8 feet from the oven. The surface for the ignition oven location shall be level, sturdy, and fireproof with at least a 6-inch clearance between the furnace and other vertical surfaces.

In addition, the building shall be furnished with an approved washroom equipped with a tank flush toilet. The building shall be equipped with electricity, primary voice phone line, secondary data phone line, sewer, and water. The arrangement and number of outlets for these utilities shall be as directed by the Engineer. The Contractor shall pay for all utility meter deposits and utility service bills. The Contractor will provide and pay for all utility services (i.e. electrical service, water, sanitary sewer, etc.), Internet service provider charges, 2 telephone line installations (one voice line and one data line), and all associated monthly service charges. The telephone lines provided will be separate from other lines. The Contractor shall provide the Engineer with the following office equipment two telephones, one stand-alone fax machine, and one office copier.

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Each piece of office equipment shall be approved by the Engineer before delivery to the project site. The Contractor shall provide a desktop microcomputer for TxDOT's exclusive use. The following software and hardware listed below or approved equal shall be provided:

Software: Microsoft® Windows XP
Microsoft® Office XP Professional or greater,
Winfax® Pro Version 9.0 or greater,
WinZip® 8.0 or greater,
Adobe® Acrobat Reader 5.0 or greater,
Netscape® Navigator 4.78 or greater,
Microsoft® Internet Explorer 5.5 or greater,
McAfee® Virus Scan 4.5.0 or greater.

Hardware: Intel® Pentium 4 processor or better (2.0 GHZ minimum),
One GB minimum of DDR RAM,
Two spare PCI expansion slots. (At least 2 spare PCI expansion slots shall be available on the motherboard after all the components required by this specification are installed.)
40 GB Hard Drive and Controller (ATA-100 or better).
The workstation shall have a 56 KBPS analog modem and an Ethernet Port.

TxDOT may install State-owned applications on the microcomputer. If so, the Contractor will be required to sign an agreement authorizing the use of State-owned software on Contractor-owned equipment. TxDOT will be responsible for the installation and maintenance of the State-owned applications. TxDOT will remove all State-owned applications before the microcomputer may be removed from the project. The Contractor shall provide an Internet service provider (ISP) throughout the duration of the project. A broadband Internet connection is required by wireless, cable, or DSL. Dial-up access is acceptable only if a broadband connection is not available. If so, dial-up service must consistently provide no less than 48 KBPS connection speed and should have a local access number. Connection may be provided by dial-up lines, cable, DSL, or ISDN in the quantity needed to provide simultaneous connection of the Contractor and the Inspector. The microcomputer must be capable of accessing TxDOT's CITRIX Meta-frame server at Austin Headquarters utilizing Department furnished CITRIX client software. The Contractor must validate with TxDOT that a connection can be established by their chosen ISP. ISPs that utilize TCP/IP protocol should be capable of accessing the CITRIX server. The Contractor will furnish TxDOT with the local workstation administrator password in order for TxDOT to perform any related support or maintenance on the workstation. The printer shall automatically detect and process the latest Hewlett-Packard® (HP) printer control language (PCL) and Adobe® postscript (PS) commands. Hewlett-Packard® Graphic Language (HPGL) shall be provided. At least 4 Megabytes (MB) of Random Access Memory (RAM) shall be provided in the printer. The RAM may be reduced to 2 MB if the printer uses host based processing or graphic device interface (GDI) technology. Use of Host Based Processing or GDI technology shall not prevent

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processing print commands from DOS based applications. At least 30 fonts shall be resident in the printer. At least 25 fonts shall be scaleable. The printer shall be provided with at least one 100-sheet minimum paper tray. One paper tray shall accommodate letter size paper. Manual feed capability shall be provided. The printer shall include at least 1 USB port and at least 1 bi-directional parallel port. Capability for installing an Ethernet or token ring network adapter shall be provided on the printer. The Contractor shall deliver the specified software and hardware to be used by TxDOT prior to the commencement of any work on the project. The Contractor shall purchase and provide to TxDOT updates to the software as required to remain compatible with current TxDOT software. In the case of needed repairs for the software or hardware, the Contractor shall provide a backup computer system meeting the same specifications within twenty-four (24) hours. Upon completion of the project, all hardware and software shall be returned to the Contractor. All monthly equipment leases will be paid by the Contractor.

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

The Contractor shall be responsible for ensuring the full intent of the Construction Pollution Mitigation Sheets is implemented.

After temporary erosion control devices are no longer required, cleanup and reshaping of those areas shall be required. This work will not be paid directly, but considered subsidiary to the various bid items.

The cleaning of asphaltic pavement equipment shall be done in such a manner that will not leave any petroleum contaminants in the ROW. Any petroleum products spilled within the ROW shall be removed and disposed of properly. No construction waste materials will be buried within the ROW.

The Contractor shall designate a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements before and during the project. The CRP shall be the contact person for the Contractor on these issues.

Locations of Rock Filter Dams shall be as shown below or as directed by the Engineer.

FM 2678 (0155-06-016)

Sta. 58+53 (Lt and Rt), Sta. 64+83 (Lt and Rt), Sta 69+39 (Lt and Rt), Sta 75+39 (Lt and Rt), Sta. 101+07 (Lt and Rt), and Sta. 107+07 (Lt and Rt).

FM 361 (0180-10-065)

Sta. 17+40 (Lt and Rt), Sta. 49+18 (Lt and Rt), and Sta. 51+76 (Lt and Rt).

FM 136 (0738-01-049)

Sta 657+50 (Lt and Rt) And Sta 663+50 (Lt and Rt).

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ITEM 533 SHOULDER TEXTURING

Quantity is measured by the roadway station and includes both sides of roadway.

ITEM 585 RIDE QUALITY FOR PAVEMENT SURFACES

Use Surface Test Type B, Pay Adjustment Schedule 3 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces." The inertial profiler results shall be submitted to the Engineer the same working day after paving.

ITEM 662 WORK ZONE PAVEMENT MARKINGS

The Contractor shall install short-term pavement markings on the permanent roadway prior to opening to traffic. Pattern and spacing of short-term pavement markings shall be as shown on WZ (STPM)-03. Non-typical short-term pavement marking patterns shall be placed as approved by the Engineer. Removal of short-term pavement markings shall be required immediately prior to placement of permanent markings.

Staples or nails shall not be used to secure markings.

For this project, standard pavement markings shall be installed by Contractor forces. It shall be the Contractor's responsibility to mark the location of the standard pavement markings including edgelines and transitions.

The Contractor may need to apply an asphalt adhesive to short-term pavement markers to ensure they adhere to the roadway surface. This work will not be paid directly, but considered subsidiary to the various bid items.

All short-term pavement markings will be removed after the roadway is striped. This work will not be paid directly, but considered subsidiary to Item 662.

ITEM 672 RAISED PAVEMENT MARKERS

The Contractor shall be responsible for installing raised pavement markings on the finished roadway.

All raised pavement markers are required to meet Department Materials Specification DMS-4200, pavement markers (reflectorized), high volume (HV) classification. The Department's General Services Division maintains a list of pre-qualified suppliers.

Bituminous adhesive shall be used to bond to all pavement markers. The bituminous adhesive shall be placed at a temperature range between 380 to 390 degrees Fahrenheit. The pavement markers shall be placed on the bituminous adhesive approximately twenty (20) seconds after the adhesive is placed on the pavement. The pavement marker shall rest solely on the adhesive and not the pavement surface. There shall be a layer of bituminous adhesive at least 1/8-inch thick between the pavement marker and the pavement surface.

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Raised pavement markers are to be placed after the Type I pavement markings have been applied, but no later than 30 calendar days after the surface treatment and/or as directed by the Engineer.

Spacing for pavement markers shall be in accordance with PM (1)-03 and PM (2)-00A.

ITEM 677 ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

The Contractor shall remove or obliterate all conflicting pavement markings as work progresses and/or as approved by the Engineer. Material removed shall become the property of the Contractor and shall be disposed off the project.

ITEM 6110 REFLECTORIZED PAVEMENT MARKINGS WITH RETROREFLECTIVE REQUIREMENTS

Pavement surface preparation for markings and markers will not be paid directly, but considered subsidiary to Item 6110.

Pavement surface preparation for markings and markers shall conform to the requirements of Item 678, except for measurement and payment.

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SPECIFICATION DATA

UNIT WEIGHT ESTIMATES

Item 341

DENSE-GRADED HOT-MIX ASPHALT(QC/QA)
TYPE-C, SAC-B, PG76-22 220 LB/SY

Item 134

BACKFILL (TYPE A)
PLASTICITY INDEX 30 MAX
PLASTICITY INDEX 15 MIN

BASIS OF ESTIMATE

ITEM	DESCRIPTION	RATE	QUANTITY	UNIT
316	SURFACE TREATMENTS			
	AGGREGATE (TYPE-PE GRADE-4S SAC-B)	1CY/110 SY	149	CY
	ASPHALT (AC-15P, HFRS-2P, OR CRS-2P)	0.37 GAL/SY	6,320	GAL
341	DENSE-GRADED HOT-MIX ASPHALT(QC/QA) TYPE-C SAC-B PG76-22	220 LBS/SY	57,281	TON
	* ASPHALT BY WEIGHT	APPROX 5.5%		
	* AGGREGATE WEIGHT	APPROX 94.5%		

*FOR CONTRACTOR'S INFORMATION ONLY